



BETA Laboratory
ISO 9001 Certified

BETA Laboratory
6670 Beta Drive
Mayfield Village Ohio 44143
1-800-470-BETA

Capabilities

1. WATER/WASTEWATER TESTING

Alkalinity or Acidity
Ammonia Determination-Potentionmetric
Anions by Ion Chromatography
Chemical Oxygen Demand
Chromium, Hexavalent
Conductivity Laboratory (Specific, Static)
Groundwater Sampling and Analysis and Reporting
Hardness, Water
Inorganic Arsenic
Mercury (Cold Vapor)
Metals - ICP - Ag, Al, As, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, Fe, Ga, Ln, Fe, Pb, Mg, Mn, Mo, Ni, Os, P, K, Sb, Se, Sn, Na, Tl, Ti, V, Zn
Metals Package, RCRA
Metals Package, TCLP (includes extraction),EPTOX (includes extraction)
Metals Preparation - Acid Digestion
NPDES Sampling - Routine
Nitrate and Nitrite
Nitrogen Ammonia
Oil and Grease
pH - Laboratory & Field
Permit Renewal Sampling & Analysis
Routine NPDES Reporting to EPA
Silica - Reactive
Solids - Dissolved, Suspended, or Total
Sulfite
Total Halogens
Total Organic Carbon
Turbidity of Water
Well Water Sampling and Analysis

2. PRODUCT AND MATERIAL TESTING

AC Proof Test
Accelerated Aging (includes Tensile & Elongation)
Acidity or Alkalinity
Air Quality Monitoring PM-10 Particulates; monitoring, troubleshooting, & repair
Cable Failure Analysis
Claims Fallout Investigation
Corrosive Property Determination
Density or Specific Gravity
Dielectric Breakdown Test
Dimensions/Measurements
Durometer Hardness Testing
Environmental Testing
Flame Test - Insulating & Sleeving
Flammability (Flash, Fire Points)
FTIR Material Confirmation
FTIR Material Identification
Insulator Testing-Dielectric Flashover
Joint Compound Testing
Lead in Paint Analysis
Lead Sleeve Testing
Material Dedication-Bridge Rectifiers



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Material Dedication-Capacitor Testing

Material Dedication-Connector Testing

Material Dedication-Contactors

Material Dedication-Fan Testing

Material Dedication-Fastener Testing

Material Dedication-Fittings

Material Dedication-Fuse Testing

Material Dedication-Fuse/Terminal Block Testing

Material Dedication-Fusible Disconnect Switch Testing

Material Dedication-Gaskets & O-Ring Testing

Material Dedication-Heater Coil Characteristics

Material Dedication-Hose Testing

Material Dedication-Lamp Receptacle Testing

Material Dedication-Lamp Testing

Material Dedication-Lockwire Testing

Material Dedication-Oils & Lubricant Testing

Material Dedication-Pressure Gauge Testing

Material Dedication-Pressure Tubing

Material Dedication-Regulators

Material Dedication-Relay/Circuit Breaker Testing

Material Dedication-Resistor Testing

Material Dedication-Sealant & Adhesive Testing

Material Dedication-Switch Testing

Material Dedication-Temperature Controllers

Material Dedication-Timer Testing

Material Dedication-Vacuum and Pressure Switches

Material Dedication-Valves

Material Marking

Melting or Boiling Point

Meteorological Monitoring Data

Microscopic Asbestos Analysis

Moisture Absorption

New Paint Testing

Non-Routine Material & Failure Analysis

Optical Comparator Measurements

OSHA-Ambient Gas Sampling

Product Comparative Evaluation

Product Curing

Reverse Engineering

Shaft Run-Out Measurements

Solder Analysis

Soluble, Insoluble

Special Coatings Evaluation

Sulfate Determination

Tape Testing

Tensile and Elongation Testing

Wire Rope Test

Wire Testing



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3. LUBRICATING AND INSULATING OIL, GREASE TESTING

Antifreeze Analysis (pH, Pour Pt., Sp.Gr.)
Cloud/Pour Point
Color
Crackle Test Moisture (no charge, included with other services)
Dielectric Strength
Dissolved Gases in Insulating Oil Analysis (DGA)
Emulsion Test
Ferrography-Analytical
Ferrography-Direct Reader
Flash/Fire Point - Open Cup
Flash/Fire Point - Closed Cup
Foaming Tendency
Grease Package -Quality (Cone Pt, Drop Pt.)
Grease-Cone Penetration
Grease-Dropping Point
Insulating Oil Screen (Dielectric Strength, Moisture)
Insulating Oil Quality (IFT, Color, Dielectric Strength, Moisture, Neutralization Number, Specific Gravity)
Insulating Oil Quality - New Oil (IFT,Color,DieStr,Moist,NN,PtCt,SpGr,Fl/Fr,Pour)
Interfacial Tension
Karl Fisher Moisture
Lube Package - Mills, Air Htrs, Delvac, Gearbox, Diesel Engines (NN,WPC,Metals, Visc)
Lube Package - Fans, Pumps, Turbines, Compressors, Hydraulic (Metals,NN,PtCt,WPC, Visc. Moisture)
Neutralization Number (Acid or Base)
Particle Count
PCB in Cable Compound-GC Analysis
PCB in Cable(Extraction)-GC Analysis
PCB in Oil-GC Analysis
Pentane Insolubles Membrane Filtration
Pentane Insolubles - % by Volume
Pentane Insolubles (COAG) - % by Weight or % by Volume
Rotary Bomb
Specific Gravity
Spectrographic Analysis-Oil
Total Particulate
Viscosity-Automatic & Manual
Water & Bottom Sediment

4. METALLURGICAL INSPECTION AND MATERIAL IDENTIFICATION

Boiler Tube Failure Analysis with the Deposit Index Determination
Chemical Analysis - Basic Aluminum Package
Chemical Analysis - Basic Copper Package
Chemical Analysis - Basic Steel Package
Chemical Analysis - Basic Tool Steel Package
Chemical Analysis, Non-Standard Elements B, CD, CO, SE, TE



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Chemical Analysis, Standard Elements
AG, AL, CR, C, CB, CU, FE, PB, MG, MN, MO, NI, P, S, SI, SN, TI, V, ZN
Decarb/Carb* - Visual or Microhardness
Energy Dispersive Spectroscopy (EDS)
Failure Analysis
Gold Sputter
Grain Size
Graphite Type and Size
Hardness, Macro
IGC Test
Microhardness
Microstructure
On-Site Metallographic Analysis
Preparation for EDS / SEM
Sample Cutting
Sample Mount & Polish
Scanning Electron Microscope (SEM)
Spectrographic Analysis - Field
Superheater/Reheater Tube Failure Analysis & Remaining useful Life (RUL) Evaluation

5. FUEL TESTING

Ash Fusion
BTU Analysis
CHN Analysis
Coal Prep
Copper Corrosion
Distillation
Cetane Number
Fineness Analysis-Coal
Flyash-Carbon Content
Flyash-Loss on Ignition
Grindability
Micro Carbon Residue
Moisture Content (Total)-Coal
PROX Analysis-LONG-includes coal preparation
PROX Analysis-SHORT-includes coal preparation
Sulfur Analysis-Coal
Sulfur Analysis-Fuel Oil
Ultimate Analysis

6. RUBBER GOODS TESTING

Inspection and Testing of Protective Rubber Gloves
Inspection and Testing of Rubber Blankets
Inspection and Testing of Rubber Sleeves

7. FIRE PROTECTION EQUIPMENT TESTING

Burn Permit Fire Watch Training
Fire Simulator Training
Protrac Database Tracking System
Extinguisher Hydro - 2 1/2 gal H₂O
Extinguisher Hydro - CO₂ <= 20#
Extinguisher Hydro - CO₂ 25# to 100#
Extinguisher Hydro - Dry Chemical < 30#
Extinguisher Refill - ABC, 10#



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Extinguisher Refill - ABC, 2 1/2#
Extinguisher Refill - ABC, 20#
Extinguisher Refill - ABC, 30#
Extinguisher Refill - ABC, 5#
Extinguisher Refill - BC, 10#
Extinguisher Refill - BC, 2 1/2#
Extinguisher Refill - BC, 20#
Extinguisher Refill - BC, 30#
Extinguisher Refill - BC, 5#
Extinguisher Refill - CO₂, 10#
Extinguisher Refill - CO₂, 100#
Extinguisher Refill - CO₂, 15#
Extinguisher Refill - CO₂, 20#
Extinguisher Refill - CO₂, 5#
Extinguisher Refill - CO₂, 50#
Extinguisher Refill - CO₂, 75#
Extinguisher Refill - H₂O, 2 1/2GAL
Extinguisher Refill - H₂O/AC40, 2 1/2GAL
Extinguisher Refill - H₂O/ANTIFREEZE, 2 1/2GAL
Extinguisher Refill - PURPLE K, 10#
Extinguisher Refill - PURPLE K, 150#
Extinguisher Refill - PURPLE K, 2 1/2#
Extinguisher Refill - PURPLE K, 20#
Extinguisher Refill - PURPLE K, 30#
Extinguisher Refill - PURPLE K, 5#
Fire Hose Testing per foot (min. 200 ft.)
Fire Extinguisher Bar Coding

Inspections:

Monthly & Annual Inspections:

- Pressure Type Extinguisher
- Cartridge Type Extinguisher
- Eyewash Station
- Fire Door
- SCBA

Wheeled Units-Annual Inspections

- Pressure Type
- Cartridge Type

Labels:

- MSDS
- OSHA
- DOT
- Conductivity

8. MEASURING AND TEST EQUIPMENT CALIBRATION

Torque Calibrations

- Torque Wrenches
- Torque Multipliers
- Hydraulic Torque Wrenches
- Special Calibrations for Motor & Air Operated Valve Diagnostic Equipment
- Calibration ranges up to 20,000 ft-lbs.

Pressure Calibrations

- Gauges



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Capabilities

-
- Transducers
 - Calibrators
 - Barometers
 - Vacuum & Absolute Pressure Capabilities
-

Electronic & Electrical Calibrations

-
- Multimeters / Process Calibrators
 - Decade Boxes / Resistors
 - Recorders
 - Oscilloscopes
 - Frequency Counters
 - Current, Frequency, and Voltage Devices
-

Dimensional Calibrations

-
- Micrometers
 - Calipers
 - Dial Indicators
 - Hardness Testers
 - Crimpers
-

Gas Flow Calibrations

-
- Mass Flow Transducers
 - Rotameters
-

Temperature & Humidity Calibrations

-
- Thermometers and Temperature Sensors
 - Recorders
 - Hygrometers
 - Environmental Testing
-

Vibration Instrumentation Calibrations

-
- Accelerometers
 - Velocity Sensors
 - Analyzers
 - Seismic Monitoring Equipment
-



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9. HEALTH & SAFETY TRAINING

Asbestos Awareness Training (2 hour)
Basic Electrical Safety (2 hour)
Bloodborne Pathogens (1 hour)
Confined Space Training (1 hour)
Ergonomics (1 hour)
Fire Safety Training - Full Program
Fire Safety Training - Short Program
General Employee Fall Protection (1 hour)
Hazard Communication Training (3 hour)
Hazardous Material - Awareness Level Training (2 hour)
Hearing Conservation Training (1 hour)
Lead Work Practices (1 hour)
Lock-Out/Tag-Out (1 hour)
OSHA 10 Hour Voluntary Compliance Training
OSHA 30 Hour Voluntary Compliance Training
OSHA Basics for Small Business (3 hour)
OSHA Safety Audit
Personal Protective Equipment (2 hour)
Powered Industrial Lift Truck Training
Respiratory Protection Training (2 hour)
Transportation of Hazardous Materials (2 hour)